

Author Index to Volume 215

- Åberg, U., E. Åkesson and V. Sundström, Excited state dynamics of barrierless isomerization in solution 215 (1993) 388
 Abner, D., see J. Holtgrave 215 (1993) 548
 Adachi, H., see T. Mukoyama 215 (1993) 93
 Agafonov, V., see B. Keita 215 (1993) 125
 Ahn, J.S., Y. Kanematsu, M. Enomoto and T. Kushida, Determination of weighted density of states of vibrational modes in Zn-substituted myoglobin 215 (1993) 336
 Ajayan, P.M., J.M. Lambert, P. Bernier, L. Barbedette, C. Colliex and J.M. Planeix, Growth morphologies during cobalt-catalyzed single-shell carbon nanotube synthesis 215 (1993) 509
 Åkesson, E., see U. Åberg 215 (1993) 388
 Aksela, H., see O.-P. Sairanen 215 (1993) 353
 Aksela, S., see O.-P. Sairanen 215 (1993) 353
 Akselrod, L., H.J. Byrne, C. Thomsen and S. Roth, Reversible photochemical processes in fullerenes. A Raman study 215 (1993) 131
 Amosov, K.A., see S.A. Nizkorodov 215 (1993) 662
 André, D., see B. Keita 215 (1993) 125
 Angerhofer, A., see G.G. Lazarev 215 (1993) 375
 Aono, S., see H. Nagao 215 (1993) 5
 Aruga, T., see T. Takaoka 215 (1993) 523
 Ataev, M., see B.Z. Gorbunov 215 (1993) 31
 Atkinson, J.B., see W. Kedzierski 215 (1993) 185

 Baker, J., V.C. Gibbons and P.A. Hamilton, Fourier transform optogalvanic spectroscopy 215 (1993) 163
 Balasubramanian, K., see M. Vijayakumar 215 (1993) 87
 Balasubramanian, K., see S. Roszak 215 (1993) 427
 Baram, A., I. Last and M. Bear, Quantum-mechanical cross sections for the D+H₂ and H+D₂ reactive systems. Application of the negative imaginary potentials within the *j_z* approximation (Chem. Phys. Letters 212 (1993) 649). Erratum 215 (1993) 416
 Barbedette, L., see P.M. Ajayan 215 (1993) 509
 Barone, V. and P. Cristinziano, Theoretical investigation of the torsional potential of 2,2'-bipyrimidine 215 (1993) 40
 Bauschlicher Jr., C.W. and H. Partridge, The vibrational frequencies of CH₂OH 215 (1993) 451
 Bear, M., see A. Baram 215 (1993) 416
 Bénére, F.M., A. Boutin, M. Trache and A.H. Fuchs, Structural properties of (SF₆)₁₃ and (SF₆)₅₅ clusters by molecular dynamics simulation 215 (1993) 301
 Bernier, P., see P.M. Ajayan 215 (1993) 509
 Besenbacher, F., see M. Foss 215 (1993) 535
 Billing, G.D. and R.E. Kolesnick, Semi-classical calculations of rate constants for vibrational transitions in hydrogen 215 (1993) 571
 Bintz, K.L., D.L. Thompson, K.L. Kompa and R.D. Levine, The direct overtone pumping of polyatomic molecules 215 (1993) 455

Author Index to Volume 215

- Åberg, U., E. Åkesson and V. Sundström, Excited state dynamics of barrierless isomerization in solution 215 (1993) 388
 Abner, D., see J. Holtgrave 215 (1993) 548
 Adachi, H., see T. Mukoyama 215 (1993) 93
 Agafonov, V., see B. Keita 215 (1993) 125
 Ahn, J.S., Y. Kanematsu, M. Enomoto and T. Kushida, Determination of weighted density of states of vibrational modes in Zn-substituted myoglobin 215 (1993) 336
 Ajayan, P.M., J.M. Lambert, P. Bernier, L. Barbedette, C. Colliex and J.M. Planeix, Growth morphologies during cobalt-catalyzed single-shell carbon nanotube synthesis 215 (1993) 509
 Åkesson, E., see U. Åberg 215 (1993) 388
 Aksela, H., see O.-P. Sairanen 215 (1993) 353
 Aksela, S., see O.-P. Sairanen 215 (1993) 353
 Akselrod, L., H.J. Byrne, C. Thomsen and S. Roth, Reversible photochemical processes in fullerenes. A Raman study 215 (1993) 131
 Amosov, K.A., see S.A. Nizkorodov 215 (1993) 662
 André, D., see B. Keita 215 (1993) 125
 Angerhofer, A., see G.G. Lazarev 215 (1993) 375
 Aono, S., see H. Nagao 215 (1993) 5
 Aruga, T., see T. Takaoka 215 (1993) 523
 Ataev, M., see B.Z. Gorbunov 215 (1993) 31
 Atkinson, J.B., see W. Kedzierski 215 (1993) 185

 Baker, J., V.C. Gibbons and P.A. Hamilton, Fourier transform optogalvanic spectroscopy 215 (1993) 163
 Balasubramanian, K., see M. Vijayakumar 215 (1993) 87
 Balasubramanian, K., see S. Roszak 215 (1993) 427
 Baram, A., I. Last and M. Bear, Quantum-mechanical cross sections for the D+H₂ and H+D₂ reactive systems. Application of the negative imaginary potentials within the *j_z* approximation (Chem. Phys. Letters 212 (1993) 649). Erratum 215 (1993) 416
 Barbedette, L., see P.M. Ajayan 215 (1993) 509
 Barone, V. and P. Cristinziano, Theoretical investigation of the torsional potential of 2,2'-bipyrimidine 215 (1993) 40
 Bauschlicher Jr., C.W. and H. Partridge, The vibrational frequencies of CH₂OH 215 (1993) 451
 Bear, M., see A. Baram 215 (1993) 416
 Bénére, F.M., A. Boutin, M. Trache and A.H. Fuchs, Structural properties of (SF₆)₁₃ and (SF₆)₅₅ clusters by molecular dynamics simulation 215 (1993) 301
 Bernier, P., see P.M. Ajayan 215 (1993) 509
 Besenbacher, F., see M. Foss 215 (1993) 535
 Billing, G.D. and R.E. Kolesnick, Semi-classical calculations of rate constants for vibrational transitions in hydrogen 215 (1993) 571
 Bintz, K.L., D.L. Thompson, K.L. Kompa and R.D. Levine, The direct overtone pumping of polyatomic molecules 215 (1993) 455

- Bittl, R., Matrix elements of spin operators in exchange coupled tetrameric metal clusters 215 (1993) 279
- Blasberg, T. and D. Suter, Nuclear spin relaxation of Pr^{3+} in YAlO_3 . A temperature-dependent optical-rf double-resonance study 215 (1993) 668
- Blasse, G., G.J. Dirksen, P. Zhiwu, G. Wehrum and R. Hoppe, Luminescence and energy migration in $\text{Ba}_3\text{NaNbO}_6$ and $\text{Ba}_3\text{NaTaO}_6$ 215 (1993) 363
- Blechta, V. and R. Freeman, Multi-site Hadamard NMR spectroscopy 215 (1993) 341
- Bludský, O., see R. Kobayashi 215 (1993) 576
- Bo, C., see C. Sousa 215 (1993) 97
- Bonosi, F., see G. Ricciardi 215 (1993) 541
- Botschwina, P., M. Oswald, J. Flügge, Ä. Heyl and R. Oswald, Ab initio spectroscopic constants and the equilibrium geometry of HCCF (Chem. Phys. Letters 209 (1993) 117). Erratum 215 (1993) 681
- Boutin, A., see F.M. Bénére 215 (1993) 301
- Bradshaw, A.M., see B. Rausenberger 215 (1993) 109
- Bradshaw, A.M., see M. Ondřejček 215 (1993) 528
- Brenner, L.J., J. Senekowitsch and R.E. Wyatt, Coupled cluster calculation of the in-plane harmonic force field of benzene 215 (1993) 63
- Byrne, H.J., see L. Akselrod 215 (1993) 131
- Céolin, R., see B. Keita 215 (1993) 125
- Cháb, V., see M. Ondřejček 215 (1993) 528
- Chakrabarti, A., S. Yashonath and C.N.R. Rao, Orientational glassy phases of C_{60} and neopentane. A Monte Carlo study 215 (1993) 591
- Charra, F., see J.-M. Nunzi 215 (1993) 114
- Chvoj, Z., see M. Ondřejček 215 (1993) 528
- Ciesielski, W., see N.D. Kushch 215 (1993) 137
- Colliex, C., see P.M. Ajayan 215 (1993) 509
- Conrad, H., see M. Ondřejček 215 (1993) 528
- Coombe, R.D., see S.M. Singleton 215 (1993) 237
- Cremer, D., see L. Olsson 215 (1993) 433
- Cristinziano, P., see V. Barone 215 (1993) 40
- Darmany, A.P., Mechanism of singlet oxygen interaction with solvent removing prohibition of the radiative ${}^1\Delta_g \rightarrow {}^3\Sigma_g^-$ transition in oxygen 215 (1993) 477
- Davis, H.F., P.I. Ionov, S.I. Ionov and C. Wittig, Picosecond resolution measurements of NO_3 unimolecular decomposition. The $\text{NO} + \text{O}_2$ channel 215 (1993) 214
- Depaelelaere, S., L. Viaene, M. Van der Auweraer, F.C. De Schryver, R.M. Hermant and J.W. Verhoeven, Non-radiative decay processes of the intramolecular charge transfer state in a rigid bichromophoric system 215 (1993) 649
- De Schryver, F.C., see S. Depaelelaere 215 (1993) 649
- Dibble, T.S. and J.S. Francisco, An ab initio study of the reaction of atomic fluorine and chlorine with trifluoroacetaldehyde 215 (1993) 409
- Dibble, T.S. and J.S. Francisco, FNO_2 : improving calculated structures at the second-order Møller-Plesset level of theory 215 (1993) 423
- Dirksen, G.J., see G. Blasse 215 (1993) 363
- Donley, E.A. and D.P. Shelton, Hyperpolarizabilities measured for interacting molecular pairs 215 (1993) 156

- Dressler, R.A., S. Williams, S.T. Graul, R.H. Salter and E. Murad, Guided-ion beam measurements of the $\text{Kr}^+ + \text{NO}$ charge-transfer reaction 215 (1993) 656
 Dugué, J., see B. Keita 215 (1993) 125
- Ebata, T., see S. Tanabe 215 (1993) 347
 Egsgaard, H., see E.L. Thomsen 215 (1993) 257
 Ellert, Ch., see Th. Reiners 215 (1993) 357
 El Misiery, A.M., see A.S. Shalabi 215 (1993) 275
 Engdahl, C. and B.I. Lundqvist, Influence of the initial rotational state on the dissociation of hydrogen on copper 215 (1993) 103
 Engel, W., see B. Rausenberger 215 (1993) 109
 Engel, W., see M. Ondřejček 215 (1993) 528
 Enomoto, M., see J.S. Ahn 215 (1993) 336
 Erman, P., A. Karawajczyk, E. Rachlew-Källne, C. Strömholm, J. Larsson, A. Persson and R. Zerne, Direct determination of the ionization potential of CO by resonantly enhanced multiphoton ionization mass spectroscopy 215 (1993) 173
 Eryomin, V.V., see S.I. Vetchinkin 215 (1993) 11
- Fabre, C., see B. Keita 215 (1993) 125
 Fehér, M., see T. Pasinszki 215 (1993) 395
 Fehér, M. and P.A. Martin, Ab initio calculations of the properties of NO^+ in its ground electronic state $X^1\Sigma$ 215 (1993) 565
 Felder, P., X. Yang and J.R. Huber, Photodissociation of nitric acid in a cold molecular beam at 193 nm 215 (1993) 221
 Fichou, D., see J.-M. Nunzi 215 (1993) 114
 Flüge, J., see P. Botschwina 215 (1993) 681
 Foss, M., F. Besenbacher, C. Klink and I. Stensgaard, Deuterium-induced restructuring of Cu(100) 215 (1993) 535
 Francisco, J.S. and Y. Su, An ab initio study of the reaction between FO radicals and H_2O 215 (1993) 58
 Francisco, J.S., see T.S. Dibble 215 (1993) 409, 423
 Francisco, J.S. and Y. Su, A computational study of the reaction between FO radicals and methane 215 (1993) 417
 Frederick, J.H., see V.D. Vachev 215 (1993) 306
 Freeman, R., see V. Blechta 215 (1993) 341
 Fuchs, A.H., see F.M. Bénére 215 (1993) 301
 Fujii, M., see S. Tanabe 215 (1993) 347
 Fukazawa, N., see S. Yamamoto 215 (1993) 323
 Fukumura, H., see S. Yamamoto 215 (1993) 323
 Fulde, P., see J. Gräfenstein 215 (1993) 611
- Garofalini, S.H., see F. Liu 215 (1993) 401
 Gibbons, V.C., see J. Baker 215 (1993) 163
 Goldman, S., see C.G. Joslin 215 (1993) 144
 Gorbunov, B.Z., E.L. Zapadinsky, K.K. Sabelfeld and M. Ataev, Influence of inhomogeneity and fluctuations of supersaturation on heterogeneous nucleation 215 (1993) 31
 Gräfenstein, J., H. Stoll and P. Fulde, Computation of the valence band of diamond by means of local increments 215 (1993) 611

Graja, A., see N.D. Kushch	215 (1993) 137
Graul, S.T., see R.A. Dressler	215 (1993) 656
Gray, C.G., see C.G. Joslin	215 (1993) 144
Grishanin, B.A., see V.D. Vachev	215 (1993) 306
Haaland, P.D., see J. Holtgrave	215 (1993) 548
Haberland, H., see Th. Reiners	215 (1993) 357
Habu, M., see H. Sekiya	215 (1993) 641
Hamanoue, K., see T. Nakayama	215 (1993) 622
Hamilton, P.A., see J. Baker	215 (1993) 163
Handa, Y.P., see J.S. Tse	215 (1993) 383
Hase, H. and Y. Miyatake, Electronic spectra of C ₇₀ anions produced in γ -irradiated organic glasses at 77 K	215 (1993) 141
Haselbach, E., see E. Vauthey	215 (1993) 264
Hayashi, H., see M. Wakasa	215 (1993) 631
He, Y., M. Quack, R. Ranz and G. Seyfang, Diode laser detection of iodine atom hyperfine transitions during and after infrared multiphoton excitation and dissociation of CF ₃ I with short pulse CO ₂ lasers	215 (1993) 228
Hermant, R.M., see S. Depaemelaere	215 (1993) 649
Herrero, C.P., Framework dependence of atom ordering in tectosilicates. A lattice gas model	215 (1993) 587
Heyl, A., see P. Botschwina	215 (1993) 681
Hillier, I.H., see P.E. Young	215 (1993) 405
Hoelt, J. and T. Törring, The microwave rotational spectrum of X ² Σ^+ YO	215 (1993) 367
Hoelt, J. and K.P.R. Nair, Millimeter wave rotational spectrum of gallium monofluoride	215 (1993) 371
Hogreve, H., The ground state geometry of the Ne ₃ ⁺ trimer	215 (1993) 72
Holme, T.A. and T.N. Truong, A test of density functional theory for dative bonding systems	215 (1993) 53
Holovko, M.F., see Yu.V. Kalyuzhnyi	215 (1993) 1
Holtgrave, J., K. Riehl, D. Abner and P.D. Haaland, Ion chemistry in tetraethylorthosilicate (C ₂ H ₅ O) ₄ Si	215 (1993) 548
Holtom, G.R., see R. Knochenmuss	215 (1993) 188
Hoppe, R., see G. Blasse	215 (1993) 363
Horiai, K., see H. Uehara	215 (1993) 505
Hotokka, M., see O.-P. Sairanen	215 (1993) 353
Huber, J.R., see P. Felder	215 (1993) 221
Hurwitz, Y., Y. Rudich and R. Naaman, Reactant rotational energy effect on energy distribution in products. The role of the electronic angular momentum	215 (1993) 674
Ibuki, K., see T. Nakayama	215 (1993) 622
Illas, F., see C. Sousa	215 (1993) 97
Ionov, P.I., see H.F. Davis	215 (1993) 214
Ionov, S.I., see H.F. Davis	215 (1993) 214
Ito, S., see H. Sekiya	215 (1993) 499
Ito, Y., see K. Yamasaki	215 (1993) 483
Jacques, P., see E. Vauthey	215 (1993) 264
Jonker, M., see G. van den Hoek	215 (1993) 461
Jørgensen, P., see R. Kobayashi	215 (1993) 576

- Joslin, C.G., C.G. Gray, S. Goldman, J. Yang and J.D. Poll, Raman spectra of endohedral fullerenes. $\text{Li}^+ @ \text{C}_{60}$ 215 (1993) 144
- Jouvet, C., see S. Martrenchard-Barra 215 (1993) 291
- Kalcher, J. and A.F. Sax, Stabilities and stationary points for singlet and triplet states of the Si_2H^- anion 215 (1993) 601
- Kalyuzhnyi, Yu.V., I.A. Protsykevych and M.F. Holovko, Solution of the associative Percus-Yevick approximation for the n -component mixture of dimerizing hard spheres 215 (1993) 1
- Kalyuzhnyi, Yu.V. and V. Vlasy, Integral equation theory for highly asymmetric electrolyte solutions 215 (1993) 518
- Kanematsu, Y., see J.S. Ahn 215 (1993) 336
- Karawajczyk, A., see P. Erman 215 (1993) 173
- Kaufman, J.J., see S. Roszak 215 (1993) 427
- Kawai, A., Y. Kobori and K. Obi, Time-resolved ESR spectra of the α -hydroxybenzyl-amine complex 215 (1993) 203
- Kawai, M., see N. Takagi 215 (1993) 120
- Kedzierski, W., J.B. Atkinson and L. Krause, Laser-induced fluorescence from the $^3\Pi_u(4^3P, 4^3P)$ state of Zn_2 215 (1993) 185
- Keita, B., L. Nadjo, R. C  olin, V. Agafonov, D. Andr  , H. Szwarc, J. Dugu  , C. Fabre, A. Rassat and P.-Y. Sizar  t, Scanning tunneling microscopy study of the surface of C_{60} decagonal crystals grown from n -hexane 215 (1993) 125
- Khmelniskii, I.V., see S.A. Nizkorodov 215 (1993) 662
- King-Smith, R.D., see F. Liu 215 (1993) 401
- Klink, C., see M. Foss 215 (1993) 535
- Knochenmuss, R., G.R. Holtom and D. Ray, Proton transfer reaction rates as a probe of size-dependent properties of large water clusters 215 (1993) 188
- Kobayashi, R., O. Bludsk  y, H. Koch and P. J  rgensen, Quartic coupled cluster force fields for the diazene isomers 215 (1993) 576
- Kobori, Y., see A. Kawai 215 (1993) 203
- Koch, H., see R. Kobayashi 215 (1993) 576
- Kolesnick, R.E., see G.D. Billing 215 (1993) 571
- Komaromi, I. and J.M.J. Tronchet, The geometry of the H_2NO radical: do the quantum mechanical results converge? 215 (1993) 444
- Kominami, K., see K. Sakoda 215 (1993) 488
- Kompa, K.L., see K.L. Bintz 215 (1993) 455
- Konno, T., see H. Uehara 215 (1993) 505
- Koroteev, N.I., see V.D. Vachev 215 (1993) 306
- Koski, W.S., see S. Roszak 215 (1993) 427
- Kotschubei, S.A., see S.A. Nizkorodov 215 (1993) 662
- Krause, L., see W. Kedzierski 215 (1993) 185
- Kubach, C., see G. Nguyen Vien 215 (1993) 35
- Kukolich, S.G. and S.M. Sickafoose, The microwave spectrum and Mn-H bond length for $\text{HMn}(\text{CO})_5$ 215 (1993) 168
- Kusalik, P.G., see I.M. Svishchev 215 (1993) 596
- Kushch, N.D., I. Majchrzak, W. Ciesielski and A. Graja, Preparation and spectral properties of $\text{C}_{60}\text{S}_{16}$, $0.5\text{C}_6\text{H}_5\text{Cl}$ and C_{60} , $0.5\text{C}_6\text{H}_5\text{Cl}$ compounds 215 (1993) 137
- Kushida, T., see J.S. Ahn 215 (1993) 336

- Kuskov, V.L., see G.G. Lazarev 215 (1993) 375
- Lambert, J.M., see P.M. Ajayan 215 (1993) 509
- Lantz, K.O. and V. Vaida, Direct absorption spectroscopy of the first excited electronic band of jet-cooled H₂S 215 (1993) 329
- Lardeux-Dedonder, C., see S. Martrenchard-Barra 215 (1993) 291
- Larsson, J., see P. Erman 215 (1993) 173
- Last, I., see A. Baram 215 (1993) 416
- Laukenmann, K., see G.G. Lazarev 215 (1993) 375
- Lazarev, G.G., V.L. Kuskov, K. Laukenmann and A. Angerhofer, Spin dynamics of neutral radical pairs in single crystals of di-tert-butyl-pyrocatechol doped with tetrakis(*t*-butyl)-phenoxazin 215 (1993) 375
- Lebedev, Ya.S., see D.S. Tipikin 215 (1993) 199
- Ligon, A.C. and J.C. Thorn, Equilibrium nuclear quadrupole coupling constants from the rotational spectrum of BrCl: a source of the electric quadrupole moment ratios $Q(^{79}\text{Br})/Q(^{81}\text{Br})$ and $Q(^{35}\text{Cl})/Q(^{37}\text{Cl})$ 215 (1993) 554
- Lelj, F., see G. Ricciardi 215 (1993) 541
- Levine, R.D., see K.L. Bintz 215 (1993) 455
- Liu, F., S.H. Garofalini, R.D. King-Smith and D. Vanderbilt, Structural and electronic properties of sodium metasilicate 215 (1993) 401
- Lundqvist, B.I., see C. Engdahl 215 (1993) 103
- Majchrzak, I., see N.D. Kushch 215 (1993) 137
- Makarov, V.I., see S.A. Nizkorodov 215 (1993) 662
- Marian, C.M., Stability and the CO stretching vibrational frequency of molecular AgCO 215 (1993) 582
- Martin, P.A., see M. Fehér 215 (1993) 565
- Martrenchard-Barra, S., C. Jouvet, C. Lardeux-Dedonder and D. Solgadi, Molecular dynamics simulations of the formation process of very small doubly charged para-difluorobenzene clusters produced in a supersonic expansion 215 (1993) 291
- Maruyama, K., see A. Osuka 215 (1993) 179
- Masuhara, H., see S. Yamamoto 215 (1993) 323
- Mataga, N., see A. Osuka 215 (1993) 179
- McClean, R.E. and L. Pasternack, Kinetics of the reactions $\text{VO}(X^4\Sigma^-) + \text{O}_2$, NO, and CO₂ 215 (1993) 209
- Mesbah, S., see Z.D. Popovic 215 (1993) 636
- Mikami, N., see S. Tanabe 215 (1993) 347
- Mikušik, P. and Š. Pick, Tight-binding study of the electronic structure of Pd and Pt epitaxial overlayers on hcp transition metal surfaces 215 (1993) 319
- Miyatake, Y., see H. Hase 215 (1993) 141
- Mizuma, H., see S. Yamamoto 215 (1993) 323
- Mori, A., see H. Sekiya 215 (1993) 641
- Mukoyama, T. and H. Adachi, Electronic structures of d⁰ complexes by the DV-X α method 215 (1993) 93
- Mundschauf, M., see B. Rausenberger 215 (1993) 109
- Murad, E., see R.A. Dressler 215 (1993) 656
- Naaman, R., see Y. Hurwitz 215 (1993) 674
- Nadjo, L., see B. Keita 215 (1993) 125
- Nagao, H., K. Nishikawa and S. Aono, The Hückel model by means of the path integral method. II. Application to the square lattice system 215 (1993) 5

Nair, K.P.R., see J. Hoefl	215 (1993) 371
Nakajima, T., see H. Sekiya	215 (1993) 499
Nakamura, Y., see M. Wakasa	215 (1993) 631
Nakayama, T., T. Takahashi, K. Ibuki and K. Hamanoue, Intracomplex electron transfer upon direct excitation of a ground-state complex of benzophenone with 2,5-dimethyl-2,4-hexadiene	215 (1993) 622
Nemeth, G.I., H.L. Selzle and E.W. Schlag, Magnetic ZEKE experiments with mass analysis	215 (1993) 151
Ng, S.C., see I. Novak	215 (1993) 561
Nguyen Vien, G., N. Rougeau and C. Kubach, H-atom exchange in low energy IH($v=0$)+I collisions. Effect of the potential energy surface	215 (1993) 35
Nickel, B., see M.T. Wick	215 (1993) 243
Nielsen, O.J., see E.L. Thomsen	215 (1993) 257
Nishijima, M., see T. Takaoka	215 (1993) 523
Nishikawa, K., see H. Nagao	215 (1993) 5
Nishimura, Y., see H. Sekiya	215 (1993) 499, 641
Nitta, A., see S. Yamamoto	215 (1993) 323
Nizkorodov, S.A., V.I. Makarov, I.V. Khmelinskii, S.A. Kotschubei and K.A. Amosov, Time-resolved fluorescence of NO ₂ in a magnetic field	215 (1993) 662
Novak, I., S.C. Ng and A.W. Potts, The photoelectron spectrum of a chiral molecule CHFCIBr	215 (1993) 561
Nunzi, J.-M., N. Pfeffer, F. Charra and D. Fichou, Picosecond photoinduced dichroism in sexithiophene thin films	215 (1993) 114
Obi, K., see K. Saito	215 (1993) 193
Obi, K., see A. Kawai	215 (1993) 203
Okada, T., see A. Osuka	215 (1993) 179
Olsson, L. and D. Cremer, Evidence for the existence of silylium cations in condensed phases	215 (1993) 433
Ondřejček, M., W. Stenzel, H. Conrad, V. Cháb, Z. Chvoj, W. Engel and A.M. Bradshaw, Surface diffusion of K on Pd{111} studied by photoemission electron microscopy	215 (1993) 528
Ondrias, M.R., see M.C. Schneebeck	215 (1993) 251
Ookubo, N., see M. Tomonari	215 (1993) 45
Orlik, W., see Th. Reiners	215 (1993) 357
Osuka, A., R.-P. Zhang, K. Maruyama, N. Mataga, Y. Tanaka and T. Okada, Determination of rates of hole transfer from free-base porphyrin to zinc porphyrin across aromatic spacers	215 (1993) 179
Oswald, M., see P. Botschwina	215 (1993) 681
Oswald, R., see P. Botschwina	215 (1993) 681
Ozaki, Y., see H. Uehara	215 (1993) 505
Parker, D.H., see G. van den Hoek	215 (1993) 461
Partridge, H., see C.W. Bauschlicher Jr.	215 (1993) 451
Pasinszki, T., T. Veszprémi and M. Fehér, The structure of beryllium pseudohalides	215 (1993) 395
Pasternack, L., see R.E. McClean	215 (1993) 209
Persson, A., see P. Erman	215 (1993) 173
Petek, H., see H. Sekiya	215 (1993) 641
Petelenz, P., Nonlocal polarizabilities in excited states of polyacene crystals	215 (1993) 607
Pfeffer, N., see J.-M. Nunzi	215 (1993) 114

- Pick, Š., see P. Mikušik 215 (1993) 319
- Pilloud, D., see E. Vauthey 215 (1993) 264
- Planeix, J.M., see P.M. Ajayan 215 (1993) 509
- Poblet, J.M., see C. Sousa 215 (1993) 97
- Poll, J.D., see C.G. Joslin 215 (1993) 144
- Poluektov, O.G., see D.S. Tipikin 215 (1993) 199
- Popovic, Z.D. and S. Mesbah, Slope to intercept ratio of low-field photogeneration efficiency in β -metal-free phthalocyanine 215 (1993) 636
- Potts, A.W., see I. Novak 215 (1993) 561
- Powell, B.M., see J.S. Tse 215 (1993) 383
- Powis, I., Continuum MS-X α calculations for core and outer valence shell photoionization of PF₃ 215 (1993) 269
- Protsykevych, I.A., see Yu.V. Kalyuzhnyi 215 (1993) 1
- Quack, M., see Y. He 215 (1993) 228
- Rachlew-Källne, E., see P. Erman 215 (1993) 173
- Ranz, R., see Y. He 215 (1993) 228
- Rao, C.N.R., see A. Chakrabarti 215 (1993) 591
- Rassat, A., see B. Keita 215 (1993) 125
- Rastomjee, C.S., see B. Rausenberger 215 (1993) 109
- Rausenberger, B., W. Swiech, C.S. Rastomjee, M. Mundschau, W. Engel, E. Zeitler and A.M. Bradshaw, Imaging reaction-diffusion fronts with low-energy electron microscopy 215 (1993) 109
- Ray, D., see R. Knochenmuss 215 (1993) 188
- Reid, K.L., Effect of intermediate state depolarization on photoelectron angular distributions from molecules following (1+1') REMPI 215 (1993) 25
- Reiners, Th., W. Orlik, Ch. Ellert, M. Schmidt and H. Haberland, Temperature dependence of the Na₂⁺ optical response 215 (1993) 357
- Reynhardt, E.C. and A. Wozniak-Braszak, Polymorphism and molecular motions in *n*-nonylammonium chloride 215 (1993) 493
- Ricciardi, G., F. Lelj and F. Bonosi, Synthesis and physico-chemical properties of the bis(2,3,7,8,12,13,17,18-octakis-(octylthio)-5,10,15,20-tetraazaporphyrinato)lutetium(III) complex 215 (1993) 541
- Riehl, K., see J. Holtgrave 215 (1993) 548
- Rozsak, S., see M. Vijayakumar 215 (1993) 87
- Rozsak, S., K. Balasubramanian, J.J. Kaufman and W.S. Koski, Multireference configuration interaction study of temporary anion states in haloforms 215 (1993) 427
- Roth, S., see L. Akselrod 215 (1993) 131
- Rougeau, N., see G. Nguyen Vien 215 (1993) 35
- Rudich, Y., see Y. Hurwitz 215 (1993) 674
- Ruhman, S., see A. Waldman 215 (1993) 470
- Ruth, A.A., see M.T. Wick 215 (1993) 243
- Sabelfeld, K.K., see B.Z. Gorbunov 215 (1993) 31
- Sairanen, O.-P., H. Aksela, S. Aksela and M. Hotokka, Changes in molecular KLL Auger spectrum of fluorine on going from HF to LiF, NaF, and KF 215 (1993) 353
- Saito, K. and K. Obi, The first observation of the $\tilde{A}^1B_1-\tilde{X}^1A_1$ transition of GeH₂ and GeD₂ radicals 215 (1993) 193

Sakaguchi, Y., see M. Wakasa	215 (1993) 631
Sakoda, K. and K. Kominami, Photochemical hole burning of porphyrin-cross-linked polymethylmethacrylate	215 (1993) 488
Salter, R.H., see R.A. Dressler	215 (1993) 656
Sawada, M., see T. Takaoka	215 (1993) 523
Sax, A.F., see J. Kalcher	215 (1993) 601
Schlag, E.W., see G.I. Nemeth	215 (1993) 151
Schlitter, J., Estimation of absolute and relative entropies of macromolecules using the covariance matrix	215 (1993) 617
Schmidt, J., see D.S. Tipikin	215 (1993) 199
Schmidt, M., see Th. Reiners	215 (1993) 357
Schneebeck, M.C., L.E. Vigil and M.R. Ondrias, Mode-selective energy localization during photoexcitation of deoxyhemoglobin and heme model complexes	215 (1993) 251
Sears, V.F., see J.S. Tse	215 (1993) 383
Sekiya, H., T. Nakajima, H. Ujita, T. Tsuji, S. Ito and Y. Nishimura, Proton tunneling in tropolone-Rg (Rg=Ar, Kr, Xe) van der Waals complexes	215 (1993) 499
Sekiya, H., M. Habu, H. Ujita, T. Tsuji, A. Mori, H. Takeshita, Y. Nishimura, H. Petek and K. Yoshihara, Dual fluorescence and excited-state intramolecular proton transfer in jet-cooled 3,4-benzotropolone	215 (1993) 641
Selzle, H.L., see G.I. Nemeth	215 (1993) 151
Senekowitsch, J., see L.J. Brenner	215 (1993) 63
Seyfang, G., see Y. He	215 (1993) 228
Shalabi, A.S. and A.M. El Misiery, Routes for LiF unit cell growth	215 (1993) 275
Shelton, D.P., see E.A. Donley	215 (1993) 156
Sickafoose, S.M., see S.G. Kukolich	215 (1993) 168
Singleton, S.M. and R.D. Coombe, Rate and mechanism of the $\text{NH}(\text{a}^1\Delta) + \text{Cl}_2$ reaction	215 (1993) 237
Sizaret, P.-Y., see B. Keita	215 (1993) 125
Smith, P.E. and W.F. van Gunsteren, The viscosity of SPC and SPC/E water at 277 and 300 K	215 (1993) 315
Solgadi, D., see S. Martrenchard-Barra	215 (1993) 291
Sousa, C., F. Illas, C. Bo and J.M. Poblet, Topological analysis of charge density in ionic solids	215 (1993) 97
Steele, W.A., see S.I. Temkin	215 (1993) 285
Stensgaard, I., see M. Foss	215 (1993) 535
Stenzel, W., see M. Ondřejček	215 (1993) 528
Stoll, H., see J. Gräfenstein	215 (1993) 611
Stolte, S., see G. van den Hoek	215 (1993) 461
Strömholm, C., see P. Erman	215 (1993) 173
Su, Y., see J.S. Francisco	215 (1993) 58, 417
Sundström, V., see U. Åberg	215 (1993) 388
Suppan, P., see E. Vauthey	215 (1993) 264
Suter, D., see T. Blasberg	215 (1993) 668
Svishchev, I.M. and P.G. Kusalik, Roto-translational motion in liquid water and its structural implication	215 (1993) 596
Swiech, W., see B. Rausenberger	215 (1993) 109
Szwarc, H., see B. Keita	215 (1993) 125

- Taatjes, C.A., see G. van den Hoek 215 (1993) 461
- Takada, T., see M. Tomonari 215 (1993) 45
- Takagi, N., J. Yoshinobu and M. Kawai, Direct observation of isothermal adsorption and desorption processes of CO on the Ni(100) surface 215 (1993) 120
- Takahashi, T., see T. Nakayama 215 (1993) 622
- Takaoka, T., Y. Yasui, M. Sawada, T. Aruga and M. Nishijima, Coadsorption of CO and C₂H₄ on Pd(110). Formation of a (3×2) mixed structure 215 (1993) 523
- Takeshita, H., see H. Sekiya 215 (1993) 641
- Tanabe, S., T. Ebata, M. Fujii and N. Mikami, OH stretching vibrations of phenol-(H₂O)_n (n=1-3) complexes observed by IR-UV double-resonance spectroscopy 215 (1993) 347
- Tanaka, A., see K. Yamasaki 215 (1993) 483
- Tanaka, Y., see A. Osuka 215 (1993) 179
- Temkin, S.I. and W.A. Steele, MD simulation of rotational relaxation in liquid nitrogen. Comparison with NMR and Raman data 215 (1993) 285
- Thompson, D.L., see K.L. Bintz 215 (1993) 455
- Thomsen, C., see L. Akselrod 215 (1993) 131
- Thomsen, E.L., O.J. Nielsen and H. Egsgaard, The reaction of nitromethane with hydrogen and deuterium atoms in the gas phase. A mechanistic study 215 (1993) 257
- Thorn, J.C., see A.C. Legon 215 (1993) 554
- Tipikin, D.S., Ya.S. Lebedev, O.G. Poluektov and J. Schmidt, ESE-detected EPR of triplet radical pairs produced by mechano-chemical treatment of 2,6-di-*t*-butylquinone diazide mixed with 3,5-di-*t*-butylpyrocatechon 215 (1993) 199
- Tokue, I., see K. Yamasaki 215 (1993) 483
- Tomonari, M., N. Ookubo and T. Takada, Missing-orbital analysis of molecular hyperpolarizability β calculated by a simplified sum-over-states method. Enhancement of the off-diagonal component β_{zxz} 215 (1993) 45
- Törning, T., see J. Hoelt 215 (1993) 367
- Trache, M., see F.M. Bénére 215 (1993) 301
- Tronchet, J.M.J., see I. Komaromi 215 (1993) 444
- Truong, T.N., see T.A. Holme 215 (1993) 53
- Tse, J.S., B.M. Powell, V.F. Sears and Y.P. Handa, The lattice dynamics of clathrate hydrates. An incoherent inelastic neutron scattering study 215 (1993) 383
- Tsuji, T., see H. Sekiya 215 (1993) 499, 641
- Uehara, H., K. Horiai, Y. Ozaki and T. Konno, Infrared diode laser spectroscopy of high-temperature molecules using spectrum processing by Fourier transformation 215 (1993) 505
- Ujita, H., see H. Sekiya 215 (1993) 499, 641
- Umanskii, I.M., see S.I. Vetchinkin 215 (1993) 11
- Vachev, V.D., J.H. Frederick, B.A. Grishanin, V.N. Zadkov and N.I. Koroteev, Stilbene isomerization dynamics on multidimensional potential energy surface. Molecular dynamics simulation 215 (1993) 306
- Vaida, V., see K.O. Lantz 215 (1993) 329
- Van den Hoek, G., M. Jonker, D.H. Parker, C.A. Taatjes and S. Stolte, Double-resonance measurements of vibrational levels populated by infrared multiphoton excitation of CF₃I in a molecular beam 215 (1993) 461
- Van der Auweraer, M., see S. Depaemelaere 215 (1993) 649

- Vanderbilt, D., see F. Liu 215 (1993) 401
- Van Gunsteren, W.F., see P.E. Smith 215 (1993) 315
- Vauthey, E., D. Pilloud, E. Haselbach, P. Suppan and P. Jacques, The reliability of free ion yield in photoinduced electron transfer reactions. The model system 9,10-dicyanoanthracene/biphenyl in acetonitrile 215 (1993) 264
- Verhoeven, J.W., see S. Depaemelaere 215 (1993) 649
- Veszprémi, T., see T. Pasinszki 215 (1993) 395
- Vetchinkin, A.S., see S.I. Vetchinkin 215 (1993) 11
- Vetchinkin, S.I., A.S. Vetchinkin, V.V. Eryomin and I.M. Umanskii, Gaussian wavepacket dynamics in an anharmonic system 215 (1993) 11
- Viaene, L., see S. Depaemelaere 215 (1993) 649
- Vigil, L.E., see M.C. Schneebeck 215 (1993) 251
- Vijayakumar, M., S. Roszak and K. Balasubramanian, An efficient relativistic multireference configuration interaction method 215 (1993) 87
- Vlachy, V., see Yu.V. Kalyuzhnyi 215 (1993) 518
- Wakasa, M., Y. Nakamura, Y. Sakaguchi and H. Hayashi, Magnetic field effects on hydrogen abstraction of triplet xanthone with *p*-aminothiophenol in an SDS micellar solution 215 (1993) 631
- Walch, S.P., Characterization of the potential energy surface for $\text{CH}_3 + \text{O}_2 \rightarrow \text{products}$ 215 (1993) 81
- Waldman, A. and S. Ruhman, A femtosecond time-resolved transient bleach study of the benzene excimer 215 (1992) 470
- Wehrum, G., see G. Blasse 215 (1993) 363
- Wick, M.T., B. Nickel and A.A. Ruth, The $S_0 \rightarrow S_3$ transition in 1,2-benzanthracene. Experimental evidence for the statistical limit of vibronic coupling of S_3 with S_2 215 (1993) 243
- Williams, D.E., see Y. Xiao 215 (1993) 17
- Williams, S., see R.A. Dressler 215 (1993) 656
- Wittig, C., see H.F. Davis 215 (1993) 214
- Wozniak-Braszak, A., see E.C. Reynhardt 215 (1993) 493
- Wyatt, R.E., see L.J. Brenner 215 (1993) 63
- Xiao, Y. and D.E. Williams, Genetic algorithm: a new approach to the prediction of the structure of molecular clusters 215 (1993) 17
- Yamamoto, S., H. Mizuma, A. Nitta, N. Fukazawa, H. Fukumura and H. Masuhara, The initial photochemical process of triosmiumdodecacarbonyl adsorbed on the surface of silica as studied by picosecond diffuse reflectance laser photolysis and matrix isolation 215 (1993) 323
- Yamasaki, K., A. Tanaka, I. Tokue and Y. Ito, Spin-forbidden excitation of $\text{CF}_2(\tilde{\text{a}}^3\text{B}_1 \leftarrow \tilde{\text{X}}^1\text{A}_1)$ by collisions with $\text{N}_2(\text{A}^3\Sigma^+)$ 215 (1993) 483
- Yang, J., see C.G. Joslin 215 (1993) 144
- Yang, X., see P. Felder 215 (1993) 221
- Yashonath, S., see A. Chakrabarti 215 (1993) 591
- Yasui, Y., see T. Takaoka 215 (1993) 523
- Yoshihara, K., see H. Sekiya 215 (1993) 641
- Yoshinobu, J., see N. Takagi 215 (1993) 120
- Young, P.E. and I.H. Hillier, Hydration free energies of nucleic acid bases using an ab initio continuum model 215 (1993) 405

Zadkov, V.N., see V.D. Vachev	215 (1993) 306
Zapadinsky, E.L., see B.Z. Gorbunov	215 (1993) 31
Zeitler, E., see B. Rausenberger	215 (1993) 109
Zerne, R., see P. Erman	215 (1993) 173
Zhang, R.-P., see A. Osuka	215 (1993) 179
Zhiwu, P., see G. Blasse	215 (1993) 363
Zhu, P.W., Viscosity study of oligomer-induced coil-globule transition of a polystyrene	215 (1993) 627